



AD-A199 709 DOCUMENTATION PAGE

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| 2b. DECLASSIFICATION/DOWNGRADING SCHEDULE | |
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| 11. TITLE (Include Security Classification) Performance Oriented Packaging Testing of Cartridge, 30mm. (U) | |
| 12. PERSONAL AUTHOR(S) Anthony D'Angelo | |
| 13a. TYPE OF REPORT Final | 13b. TIME COVERED FROM _____ TO _____ |
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| 19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains the testing and test results performed on the 30mm cartridges. Packed 10 strips/metal container, 11 cartridges/strip (110 cartridges total). | |
| 20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS | |
| 21. ABSTRACT SECURITY CLASSIFICATION Unclassified | |
| 22a. NAME OF RESPONSIBLE INDIVIDUAL Anthony D'Angelo | 22b. TELEPHONE (Include Area Code) 201-724-4976 |
| 22c. OFFICE SYMBOL SMCAR-AEP | |

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1. DATA:

Container:

Type: Container, Steel, with Removable Cover
UN Code: 4A1
Nomenclature: Shipping & Storage Container, Cartridge: 30mm XM592
Specification Number: MIL-S-50312
Drawing Number: 10542565
Material: Steel
Capacity: 38.1 kg (84 lbs.)
Dimensions: 47.2 cm x 24.1 cm x 37.1 cm (18 19/32 x 9 1/2 x 14 19/32 in.)
Gross Weight: 49.9 kgs (110 lbs.)

Product:

Name: Cartridge, 30mm
Drawing Number: 12910289
United Nations Number: 0321,
United Nations Packing Group: II
Physical State: Solid
Amount per Container: 110 (10 strips w/11 cartridges each)

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2. BACKGROUND:

This report contains the testing and test results performed on the 30mm cartridge. The XM592 container (PN 10542565) will pack nine different types of 30mm cartridges in accordance with drawing no. 12902718. Since all nine types are packed identically and have the same weight, the inert 30mm cartridge was used for the Performance Oriented Packaging certification. Test were performed in accordance with Performance Oriented Packaging test regulations.

3. TEST:

Containers were dropped once each from 1.2 meters (4 feet). The containers were dropped on a 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. The orientations were as follows:

Bottom
Top
Side, long
Side, short
Bottom corner

All drops were conducted at ambient temperature.

4. RESULTS:

The containers passed all tests since none of the contents were discharged. They are considered safe for international transportation in accordance with Performance Oriented Packaging regulations.

5. REFERENCED MATERIAL:

A. United Nations, "Transport of Dangerous Goods," 4th Edition.